

WHAT IS CLAIMED IS:

1. A radio communication method in a radio LAN system
for radio communication based on TDMA system with idle time
5 provided between data to be transmitted and received by
radio communication terminals on a radio section, wherein:

said radio communication terminals carrying out radio
communication perform such communication setting as to
reduce transmission time of the header added to said data
10 and/or to reduce said idle time.

2. The radio communication method according to claim 1,
wherein, for the purpose of performing communication
setting to reduce the header transmission time and/or said
15 idle time, said radio communication terminal acquires an
ability to reduce said transmission time of said header of
said radio communication terminal, serving as communication
partner, and/or to reduce said idle time.

20 3. The radio communication method according to claim 2,
wherein said radio communication terminal acquires an
ability to reduce transmission time of said header of said
radio communication terminal, serving as said communication
partner, and/or to reduce said idle time from a radio
25 communication terminal different from said radio

communication terminal, serving as said communication partner.

4. The radio communication method according to any one
5 of claims 1 to 3, wherein said radio communication terminals perform said radio communication according to communication setting to reduce said header transmission time and/or said idle time.

10 5. A radio communication method in a radio LAN system for radio communication based on TDMA system with idle time provided between data to be transmitted and received by radio communication terminals on a radio section, wherein:
said radio communication terminals carrying out radio
15 communication reduce transmission time of the header added to said data and/or said idle time to perform communication.

6. The radio communication method according to claim 4 or 5, wherein said radio communication terminals change
20 communication setting to reduce said header transmission time and/or said idle time.

7. The radio communication method according to claim 6, wherein said radio communication terminal acquires ability
25 to reduce said header transmission time and/or said idle

time of said radio communication terminal, serving as said communication partner, from a radio communication terminal different from said radio communication terminal, serving as said communication partner, and by referring to said ability, said radio communication terminal changes communication setting to reduce said header transmission time and/or said idle time.

8. The radio communication method according to claim 4 or 5, wherein, when said radio communication terminal transmits said data, said header is added to said data for each of the predetermined data transmissions and reduces said header transmission time by transmitting the other data without adding said header.

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9. The radio communication method according to claim 8, wherein number of said data transmissions where said header is added is set in said communication setting.

10. The radio communication method according to claim 4 or 5, wherein said radio communication terminal acquires said header added to said data existent on said radio section in advance, and if said data without said header added to it is received, transmission time of said header is reduced by referring to said header acquired in advance.

11. The radio communication method according to claim
4 or 5, wherein, in case said radio communication terminal
receives an information relating to the header of a radio
5 communication terminal, serving as said communication
partner, identification information to identify the radio
communication terminal, serving as transmission source of
said information relating to said header, is associated
with the information relating to said header received, and
10 said identification information is transmitted to said
radio communication terminal, serving as the transmission
source.

12. The radio communication method according to claim
15 4 or 5, wherein said radio communication terminal transmits
said information relating to header to said radio section
as said data and adds a predetermined identification
information associated with said header to the data to be
transmitted subsequently.

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13. The radio communication method according to claim
11 or 12, wherein said identification information is set in
said communication setting.

25 14. The radio communication method according to claim

4 or 5, wherein said radio communication terminal receives
said data and transmits the data after said receiving
acknowledgment information when the receiving
acknowledgment information to notify that said data has
5 been received is transmitted.

15. The radio communication method according to claim
14, wherein said radio communication terminal terminates
transmission of said data following said receiving
10 acknowledgment information in accordance with a
predetermined condition.

16. The radio communication method according to claim
1 or 5, wherein communication in accordance with IEEE Std
15 802.11 is utilized as said radio communication.

17. A radio communication terminal in a radio LAN
system, wherein radio communication based TDMA system is
performed with idle time provided between the data
20 transmitted and received by the radio communication
terminals on radio section, wherein:

communication setting can be set to reduce the
transmission time of header added to said data and/or said
idle time.

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18. A radio communication terminal in a radio LAN system, wherein radio communication based TDMA system is performed with idle time provided between the data transmitted and received by the radio communication terminals on radio section, wherein:

said radio communication can be performed by reducing the transmission time of the header added to said data and/or said idle time.

19. The radio communication terminal according to claim 18, wherein communication setting to reduce transmission time of said header and/or said idle time during said radio communication can be changed.

20. The radio communication terminal according to any one of claims 17 to 19, wherein communication in accordance with IEEE Std 802.11 is utilized as said radio communication.

21. A radio LAN system where radio communication based on TDMA system is performed with idle time provided between the data transmitted and received by radio communication terminals on a radio section, wherein:

said radio communication terminals for performing said radio communication can carry out communication setting to

reduce transmission time of header added to said data
and/or said idle time.

22. A radio LAN system where radio communication based
5 on TDMA system is performed with idle time provided between
the data transmitted and received by radio communication
terminals on a radio section, wherein:

said radio communication terminals for performing said
radio communication can carry out said radio communication
10 by reducing transmission time of header added to said data
and/or said idle time.

23. The radio LAN system according to claim 22,
wherein said radio communication terminal can change the
15 communication setting to reduce transmission time of said
header and/or said idle time during said radio
communication.

24. The radio LAN system according to any one of
20 claims 21 to 23, wherein communication in accordance with
IEEE Std. 802.11 is utilized as said radio communication.